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FILE 'HOME' ENTERED AT 18:02:09 ON 21 APR 2005

=> file caplus uspatful europatful japiro medline biosis embase scisearch
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FILE 'USPATFULL' ENTERED AT 18:07:25 ON 21 APR 2005
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=> s implant and macromer
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"HELP COMMANDS" at an arrow prompt (=>).

=> .
. IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=>
<-----User Break----->

=> s (implant and macromer)
AND IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s implant
=> s implant?
L1 994797 IMPLANT?

=> s l1 and macromer
L2 444 L1 AND MACROMER

=> s l1 and biocompat?
L3 55741 L1 AND BIOCOMPAT?

=> s 12 and biocompat?
L4 295 L2 AND BIOCOMPAT?

=> s 14 and ((drug delivery) or bioeffect? or biologically(w)effect? or biologically(w)activ? or drug or pharmaceut?)
1 FILES SEARCHED...
5 FILES SEARCHED...
6 FILES SEARCHED...
7 FILES SEARCHED...
L5 239 L4 AND ((DRUG DELIVERY) OR BIOEFFECT? OR BIOLOGICALLY(W) EFFECT
? OR BIOLOGICALLY(W) ACTIV? OR DRUG OR PHARMACEUT?)

=> s 15 and aggregat?
L6 86 L5 AND AGGREGAT?

=> s 16 and (macromer? or ((polyethylene glycol) or hyaluron? or (polyvinylpyrrolidone))
UNMATCHED LEFT PARENTHESIS 'AND (MACROMER?')
The number of right parentheses in a query must be equal to the number of left parentheses.

=> s 16 and (macromer? or ((polyethylene glycol) or hyaluron? or (polyvinylpyrrolidone)))
L7 86 L6 AND (MACROMER? OR ((POLYETHYLENE GLYCOL) OR HYALURON? OR (POLYVINYL PYRROLIDONE)))

=> s 17 and ((central core) or core)
L8 63 L7 AND ((CENTRAL CORE) OR CORE)

=> s 18 and ((polyethylene glycol) or (polyethylene oxide) or (polyvinyl alcohol) or (polyvinylpyrrolidone) or polyethyloxazoline or ((polyethylene oxide co polypropylene oxide)) or polysaccharide? or carbohydrate? or protein?)
6 FILES SEARCHED...
L9 63 L8 AND ((POLYETHYLENE GLYCOL) OR (POLYETHYLENE OXIDE) OR (POLYVINYL ALCOHOL) OR (POLYVINYL PYRROLIDONE) OR POLYETHYLOXAZOLINE OR ((POLYETHYLENE OXIDE CO POLYPROPYLENE OXIDE)) OR POLYSACCHARIDE? OR CARBOHYDRATE? OR PROTEIN?)

=> s 19 and (degrad? or biodegrad? or (polyalphahydroxy acid) or polylactone or polyamino or polyanhydride or polyorthoester or polycarbonate or polyphosphoester?)
L10 62 L9 AND (DEGRAD? OR BIODEGRAD? OR (POLYALPHAHYDROXY ACID) OR POLYLACTONE OR POLYAMINO OR POLYANHYDRIDE OR POLYORTHOESTER OR POLYCARBONATE OR POLYPHOSPHOESTER?)

=> s 110 and (end group?) and polymer?
L11 40 L10 AND (END GROUP?) AND POLYMER?

=> s 111 and (triethanolamine or tris or SDS or (sodium dodecyl sulfate))
L12 26 L11 AND (TRIETHANOLAMINE OR TRIS OR SDS OR (SODIUM DODECYL SULFATE))

=> s 112 and (surfact? or (tween 20) or (tween 80) or (poloxamer F68))
L13 13 L12 AND (SURFACT? OR (TWEEN 20) OR (TWEEN 80) OR (POLOXAMER F68))

=> s 113 and (intravenous? or subcutaneous? or intramuscular? or oral? or nasal? or intranasal?)
L14 8 L13 AND (INTRAVENOUS? OR SUBCUTANEOUS? OR INTRAMUSCULAR? OR ORAL? OR NASAL? OR INTRNASAL?)

=> d 114 1-8 ibib abs

L14 ANSWER 1 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2004:273265 USPATFULL
TITLE: Methods and compositions to treat myocardial conditions
INVENTOR(S): Michal, Eugene T., San Francisco, CA, UNITED STATES
Mandrusov, Evgenia, Campbell, CA, UNITED STATES
Claude, Charles D., Santa Clara, CA, UNITED STATES
Ding, Ni, San Jose, CA, UNITED STATES
Simhambhatla, Murthy, San Jose, CA, UNITED STATES
Hossainy, Syed Faiyaz Ahmed, Fremont, CA, UNITED STATES
Sridharan, Srinivasan, Morgan Hill, CA, UNITED STATES
Consigny, Paul, San Jose, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004213756	A1	20041028
APPLICATION INFO.:	US 2003-414767	A1	20030415 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BLAKELY SOKOLOFF TAYLOR & ZAFMAN, 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR, LOS ANGELES, CA, 90025-1030		
NUMBER OF CLAIMS:	82		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	35 Drawing Page(s)		
LINE COUNT:	2862		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods, devices, kits and compositions to treat a myocardial infarction. In one embodiment, the method includes the prevention of remodeling of the infarct zone of the ventricle. In other embodiments, the method includes the introduction of structurally reinforcing agents. In other embodiments, agents are introduced into a ventricle to increase compliance of the ventricle. In an alternative embodiment, the prevention of remodeling includes the prevention of thinning of the ventricular infarct zone. In another embodiment, the prevention of remodeling and thinning of the infarct zone involves the cross-linking of collagen and prevention of collagen slipping. In other embodiments, the structurally reinforcing agent may be accompanied by other therapeutic agents. These agents may include but are not limited to pro-fibroblastic and angiogenic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 8 USPATFULL on STN
ACCESSION NUMBER: 2004:267308 USPATFULL
TITLE: Methods and compositions to treat myocardial conditions
INVENTOR(S): Michal, Eugene T., San Francisco, CA, UNITED STATES
Mandrusov, Evgenia, Campbell, CA, UNITED STATES
Claude, Charles D., Santa Clara, CA, UNITED STATES
Ding, Ni, San Jose, CA, UNITED STATES
Simhambhatla, Murthy, San Jose, CA, UNITED STATES
Ahmed Hossainy, Syed Faiyaz, Fremont, CA, UNITED STATES
Sridharan, Srinivasan, Morgan Hill, CA, UNITED STATES
Consigny, Paul, San Jose, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004208845	A1	20041021
APPLICATION INFO.:	US 2003-414602	A1	20030415 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	BLAKELY SOKOLOFF TAYLOR & ZAFMAN, 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR, LOS ANGELES, CA, 90025-1030		
NUMBER OF CLAIMS:	101		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	35 Drawing Page(s)		

LINE COUNT: 2925

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods, devices, kits and compositions to treat a myocardial infarction. In one embodiment, the method includes the prevention of remodeling of the infarct zone of the ventricle. In other embodiments, the method includes the introduction of structurally reinforcing agents. In other embodiments, agents are introduced into a ventricle to increase compliance of the ventricle. In an alternative embodiment, the prevention of remodeling includes the prevention of thinning of the ventricular infarct zone. In another embodiment, the prevention of remodeling and thinning of the infarct zone involves the cross-linking of collagen and prevention of collagen slipping. In other embodiments, the structurally reinforcing agent may be accompanied by other therapeutic agents. These agents may include but are not limited to pro-fibroblastic and angiogenic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2004:203025 USPATFULL

TITLE: Slow release protein polymers

INVENTOR(S):
Rowe, Stephen C., Wellesley, MA, UNITED STATES
Yim, Kelvin, North Andover, MA, UNITED STATES
Retnarajan, Beadle P., Beverly, MA, UNITED STATES
Hubbell, Jeffrey A., Zumikon, SWITZERLAND
Annavajula, Durga, Acton, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004156914	A1	20040812
APPLICATION INFO.:	US 2003-650115	A1	20030826 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-772174, filed on 29 Jan 2001, GRANTED, Pat. No. US 6699504		

	NUMBER	DATE
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PRIORITY INFORMATION:	US 2000-178852P	20000128 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	CLARK & ELBING LLP, 101 FEDERAL STREET, BOSTON, MA, 02110	

NUMBER OF CLAIMS: 10

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 7 Drawing Page(s)

LINE COUNT: 1592

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention features articles for delivery of a biologically active substance, methods for making such articles, and methods for treating an animal using the articles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2004:179159 USPATFULL

TITLE: Gels for encapsulation of biological materials

INVENTOR(S):
Hubbell, Jeffrey A., San Marino, CA, UNITED STATES
Pathak, Chandrashekhar P., Lexington, MA, UNITED STATES
Sawhney, Amarpreet S., Lexington, MA, UNITED STATES
Desai, Neil P., Los Angeles, CA, UNITED STATES
Hossainy, Syed F.A., San Carlos, CA, UNITED STATES
Hill-West, Jennifer L., Pasadena, CA, UNITED STATES
PATENT ASSIGNEE(S): Board of Regents of the University of Texas System (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004138329	A1	20040715
APPLICATION INFO.:	US 2003-743687	A1	20031219 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-910663, filed on 19 Jul 2001, ABANDONED Continuation of Ser. No. US 1995-510089, filed on 1 Aug 1995, ABANDONED Continuation-in-part of Ser. No. US 1992-958870, filed on 7 Oct 1992, GRANTED, Pat. No. US 5529914 Continuation-in-part of Ser. No. US 1992-870540, filed on 20 Apr 1992, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	IRELL & MANELLA LLP, 1800 AVENUE OF THE STARS, SUITE 900, LOS ANGELES, CA, 90067		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	22 Drawing Page(s)		
LINE COUNT:	3258		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel methods for the formation of **biocompatible** membranes around biological materials using photopolymerization of water soluble molecules. The membranes can be used as a covering to encapsulate biological materials or biomedical devices, as a "glue" to cause more than one biological substance to adhere together, or as carriers for **biologically active species**.

Several methods for forming these membranes are provided. Each of these methods utilizes a **polymerization** system containing water-soluble **macromers**, species which are at once **polymers** and macromolecules capable of further **polymerization**. The **macromers** are **polymerized** using a photoinitiator (such as a dye), optionally a cocatalyst, optionally an accelerator, and radiation in the form of visible or long wavelength UV light. The reaction occurs either by suspension **polymerization** or by interfacial **polymerization**. The **polymer** membrane can be formed directly on the surface of the biological material, or it can be formed on material which is already encapsulated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 5 OF 8 USPATFULL on STN
 ACCESSION NUMBER: 2003:127770 USPATFULL
 TITLE: Gels for encapsulation of biological materials
 INVENTOR(S): Hubbell, Jeffrey A., San Marino, CA, UNITED STATES
 Pathak, Chandrashekhar P., Lexington, MA, UNITED STATES
 Sawhney, Amarpreet S., Lexington, MA, UNITED STATES
 Desai, Neil P., Los Angeles, CA, UNITED STATES
 Hossainy, Syed F.A., San Carlos, CA, UNITED STATES
 Hill-West, Jennifer L., Pasadena, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003087985	A1	20030508
APPLICATION INFO.:	US 2001-910663	A1	20010719 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-510089, filed on 1 Aug 1995, ABANDONED Continuation-in-part of Ser. No. US 1992-958870, filed on 7 Oct 1992, GRANTED, Pat. No. US 5529914 Continuation-in-part of Ser. No. US 1992-870540, filed on 20 Apr 1992, ABANDONED		

Continuation-in-part of Ser. No. US 1995-379848, filed on 27 Jan 1995, GRANTED, Pat. No. US 5626863
Continuation of Ser. No. US 1993-22687, filed on 1 Mar 1993, GRANTED, Pat. No. US 5410016 Continuation-in-part of Ser. No. US 1992-843485, filed on 28 Feb 1992, ABANDONED Continuation-in-part of Ser. No. US 1994-336393, filed on 10 Nov 1994, GRANTED, Pat. No. US 5820882 Continuation of Ser. No. US 1990-598880, filed on 15 Oct 1990, ABANDONED

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

LYON & LYON LLP, 633 WEST FIFTH STREET, SUITE 4700, LOS ANGELES, CA, 90071

NUMBER OF CLAIMS:

36

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

22 Drawing Page(s)

LINE COUNT:

3246

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel methods for the formation of **biocompatible** membranes around biological materials using photopolymerization of water soluble molecules. The membranes can be used as a covering to encapsulate biological materials or biomedical devices, as a "glue" to cause more than one biological substance to adhere together, or as carriers for **biologically active species**.

Several methods for forming these membranes are provided. Each of these methods utilizes a **polymerization** system containing water-soluble **macromers**, species which are at once **polymers** and macromolecules capable of further **polymerization**. The **macromers** are **polymerized** using a photoinitiator (such as a dye), optionally a cocatalyst, optionally an accelerator, and radiation in the form of visible or long wavelength UV light. The reaction occurs either by suspension **polymerization** or by interfacial **polymerization**. The **polymer** membrane can be formed directly on the surface of the biological material, or it can be formed on material which is already encapsulated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 6 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2003:113598 USPATFULL

TITLE:

Degradable cross-linking agents and cross-linked network **polymers** formed therewith

INVENTOR(S):

Kiser, Patrick F., Salt Lake, UT, UNITED STATES
Thomas, Allen A., Loveland, CO, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION:

US 2003078339 A1 20030424

APPLICATION INFO.:

US 2002-228398 A1 20020827 (10)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1999-338404, filed on 22 Jun 1999, GRANTED, Pat. No. US 6521431

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

JACKSON WALKER, L.L.P., SUITE 2100, 112 EAST PECAN ST., SAN ANTONIO, TX, 78205

NUMBER OF CLAIMS:

35

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

5 Drawing Page(s)

LINE COUNT:

1866

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Degradable** cross-linkers which are used to form **polymer** networks which **degrade** under aqueous conditions are described. These cross-linkers comprise a central polyacid, monomeric or oligomeric **degradable** regions and an optional water soluble regions. These monomers are preferably **polymerized** using free radical or condensation **polymerization**. **Degradation** occurs at the ester linkages after cross-linking **polymer** filaments, and results in soluble **polymer** filaments which may be cleared from the body. Preferred applications of these materials include, for example, controlled release of drugs and cosmetics, tissue engineering, wound healing, hazardous waste remediation, metal chelation, swellable devices for absorbing liquids and the prevention of surgical adhesions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 7 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2002:272507 USPATFULL

TITLE: Controlled release of anti-arrhythmic agents

INVENTOR(S): Philbrook, C. Michael, Boston, MA, UNITED STATES

Burns, James W., Watertown, MA, UNITED STATES

Skinner, Kevin C., Andover, MA, UNITED STATES

Miller, Robert J., Quincy, MA, UNITED STATES

PATENT ASSIGNEE(S): Genzyme Corporation (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2002150622 A1 20021017

APPLICATION INFO.: US 2001-33274 A1 20011227 (10)

NUMBER DATE

PRIORITY INFORMATION: US 2000-258369P 20001227 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PATREA L. PABST, HOLLAND & KNIGHT LLP, SUITE 2000, ONE ATLANTIC CENTER, 1201 WEST PEACHTREE STREET, N.E., ATLANTA, GA, 30309-3400

NUMBER OF CLAIMS: 42

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 1405

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for the simple, reliable application and local controlled release of selected anti-arrhythmia drugs from a hydrogel applied to or **polymerized** on the tissues of the heart or its vessels, especially in conjunction with cardiac bypass or other cardiac surgery, have been developed. The anti-arrhythmia drugs are incorporated into hydrogels that **biodegrade** and adhere to the tissues to which the anti-arrhythmic drugs are to be delivered. The hydrogels may be formed *in vitro* or *in vivo*. In a preferred embodiment, the drugs are effective to lengthen atrial effective refractory period. A particularly preferred **drug** is amiodarone.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2001:223730 USPATFULL

TITLE: Slow release **protein polymers**

INVENTOR(S): Rowe, Stephen C., Wellesley, MA, United States

Yim, Kalvin, North Andover, MA, United States

Retnarajan, Beadle P., Beverly, MA, United States

Hubbell, Jeffrey A., Zumikon, Switzerland
Annavajula, Durga, Acton, MA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001048947	A1	20011206
	US 6699504	B2	20040302
APPLICATION INFO.:	US 2001-772174	A1	20010129 (9)
	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-178852P	20000128 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	CLARK & ELBING LLP, 176 FEDERAL STREET, BOSTON, MA, 02110-2214		
NUMBER OF CLAIMS:	75		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1802		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The invention features articles for delivery of a biologically active substance, methods for making such articles, and methods for treating an animal using the articles.		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			